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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/701,418	11/06/2003	Rajiv Ranjan	50103-556	7578
7590 05/18/2007 MCDERMOTT, WILL & EMERY			EXAMINER	
600 13th Street, N.W.			BASHORE, ALAIN L	
Washington, DC 20005-3096			ART UNIT	PAPER NUMBER
			1762	
				<u> </u>
•			MAIL DATE	DELIVERY MODE
			05/18/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		#V				
	Application No.	Applicant(s)				
	10/701,418	RANJAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Alain L. Bashore	1762				
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet wit	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory peric Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a re- od will apply and will expire SIX (6) MON tute, cause the application to become AB.	CATION.  sply be timely filed  IHS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 3-	<u>1-06</u> .					
2a) This action is <b>FINAL</b> . 2b) ⊠ The	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-24 is/are pending in the application	on.					
4a) Of the above claim(s) 11-24 is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
	6) Claim(s) <u>1-10</u> is/are rejected.					
	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and	a/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Exami	ner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the	ne drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	gn priority under 35 U.S.C. §	119(a)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
dee the attached detailed Office action for a li	st of the certified copies hot i	eceiveu.				
Attachment(s)						
1) Motice of References Cited (PTO-892)  2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)		ummary (PTO-413) )/Mail Date				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		formal Patent Application				

#### **DETAILED ACTION**

# Corrected Office Action Restarting time period for response

The period for response is re-started with the mailing of this corrected office action that includes an obviousness double patenting rejection missing from the pervious office action.

# Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shimizu et al in view of Chou et al.

Shimizu et al discloses a method of manufacturing granular perpendicular magnetic recording material. There is provided a non-magnetic substrate, and forming a layer track on the surface, the layer stack including granular perpendicular magnetic recording layer (para 0023). A plasma is generated, and the exposed surface of the layer is treated with plasma to form an oxidized surface layer (para 0110). Al-based

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alloys are disclosed for the non-magnetic substrate (para 0038). A HCP lattice structure is also disclosed (para 0106).

Shimizu et al does not disclose the plasma containing at least one oxygen species derived from a source gas comprised of a compound of oxygen and at least one other non-metallic element.

Chou et al discloses oxygen plasma reaction (col 4, lines 2-16).

It would have been obvious to one with ordinary skill in the art to include such because of advantages taught by Chou et al (col 3, lines 3-10).

### Double Patenting

3. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to

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be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

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4. Claims 1-4, 8, and 13 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claim 15 of U.S. Patent No. 7,081,268 in view of Chou et al. Claims 1-4, 8, and 13 are directed to an invention not patentably distinct from claim 15 of the commonly assigned patent.

The '268 patent does not claim an ionized oxygen-containing plasma.

Chou discloses such and would have been claimed for the reasons as set forth in the rejection utilizing Chou et al above.

5. The U.S. Patent and Trademark Office normally will not institute an interference between applications or a patent and an application of common ownership (see MPEP Chapter 2300). Commonly assigned patent 7,081,268 discussed above, would form the basis for a rejection of the noted claims under 35 U.S.C. 103(a) if the commonly assigned case qualifies as prior art under 35 U.S.C. 102(e), (f) or (g) and the conflicting inventions were not commonly owned at the time the invention in this application was made. In order for the examiner to resolve this issue, the assignee can, under 35 U.S.C. 103(c) and 37 CFR 1.78(c), either show that the conflicting inventions were commonly owned at the time the invention in this application was made, or name the prior inventor of the conflicting subject matter.

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A showing that the inventions were commonly owned at the time the invention in this application was made will preclude a rejection under 35 U.S.C. 103(a) based upon the commonly assigned case as a reference under 35 U.S.C. 102(f) or (g), or 35 U.S.C. 102(e) for applications pending on or after December 10, 2004.

# Response to Arguments

6. Applicant's arguments, see after-final arguments, filed 1-31-07, with respect to the rejection(s) of claim(s) 1-10 under 35 USC 103 have been fully considered and are persuasive. Therefore, the final rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of The reference to Chou et al. Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

### **Conclusion**

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alain L. Bashore whose telephone number is 571-272-6739. The examiner can normally be reached on about 7:30 am to 5:00 pm (Mon. thru Thurs.).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on 571-272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Alain L. Bashore Primary Examiner Art Unit 1762